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| L1 | 0 | (select$5 identify$5 providing adapt$5) near5 (common generic general) near10 (template) same (bandwidth) same (language) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/29 10:15 |
| L2 | 12 | (select$5 identify$5 providing adapt$5) near5 (common generic general) near10 (template) same (language) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/29 10:08 |
| L3 | 2 | (select$5 identify$5 providing adapt$5) near5 (common generic general) near10 (template) same (bandwidth) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/29 10:12 |
| L5 | 0 | 709/201,202,203,206,218,219,230,231,232,233,238,245,246.ccls. and(select$5 identify$5 providing adapt$5) near10 (template) same (bandwidth) same (language) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/29 10:16 |
| L6 | 9 | 709/201,202,203,206,218,219,230,231,232,233,238,245,246.ccls. and(template) same (bandwidth) same (language) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/29 10:24 |
| L7 | 11 | "709"/$.ccls. and(template) same (bandwidth) same (language) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/29 10:24 |
| S1 | 812 | DHTML | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/26 08:04 |
| S2 | 363 | DHTML and ((Identify$5 select$5) near10 (template display)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/13 13:47 |
| S3 | 65 | DHTML and ((Identify$5 select$5) near10 (template)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 10:18 |
| S4 | 2915 | (Viewable displayble nonviewable onondisplayble) near5 (content information data) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/09/09 16:51 |
| S5 | 84 | ((Viewable displayble nonviewable onondisplayble) near5 (content information data)) and ((Identify$5 select$5) near10 (template)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 08:19 |
| S6 | 2920 | (Viewable displayble nonviewable nondisplayble) near5 (content information data) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 12:46 |
| S7 | 84 | ((Viewable displayble nonviewable nondisplayble) near5 (content information data)) and ((Identify$5 select$5) near10 (template)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 10:35 |

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|---|---|---|---|---|---|---|
| S8 | 0 | ((select$5 use using) near5 (template) near5 (display present) near5 (noncompatible)) and HTML and tag | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 10:21 |
| S9 | 0 | ((select$5) near5 (template) near5 (display present) near5 (noncompatible)) and HTML and tag | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 10:21 |
| S10 | 0 | ((select$5) near5 (template) near5 (display present) near5 (noncompatible)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 10:22 |
| S11 | 7 | ((select$5) near5 (template) near5 (display present) near5 (noncompatible nonviewable language)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/29 08:51 |
| S12 | 1 | (Pars$4 separat$5 identify$4) near10 (multilingual) near(URL request) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 10:37 |
| S13 | 8 | (Pars$4 separat$5) near10 (URL request)near10 ((identify$ select$5) adj5 (template)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 11:56 |
| S14 | 1 | EP00100738 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 11:50 |
| S15 | 20 | (Pars$4 separat$5) near10 (URL request)near10 ((identify$ select$5) near10(template)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 12:46 |
| S16 | 0 | (displayble nondisplayble)adj5 (content) and ((identify$ select$5) near10(template)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 12:47 |
| S17 | 0 | (displayble nondisplayble) adj5 (content) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 12:47 |
| S18 | 0 | (displayble)near5 (content) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 12:47 |
| S19 | 1 | (displayble)near5 (content data) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 12:48 |
| S20 | 0 | (browser near10 displayble)near10 (content data) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 12:49 |

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| S21 | 0 | (browser near10 displayble)near10 (multilingual multilanguage) near10 (content data) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 12:49 |
| S22 | 0 | (browser near10 displayble)near10 (multilingual multilanguage) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 12:50 |
| S23 | 0 | (browser near10 displayble)and (multilingual multilanguage) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 12:50 |
| S24 | 258 | (multilingual multilanguage) near10 (data content) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 12:50 |
| S25 | 5 | (combin$5 insert$5) near10 (multilingual multilanguage) near10 (data content) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 13:03 |
| S26 | 0 | (combin$5 insert$5) near10 (multilingual multilanguage) near10 (data content) and (template) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 13:03 |
| S27 | 0 | (insert$5) near10 (multilingual multilanguage) near10 (data content) and (template) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/09/09 16:23 |
| S28 | 17 | (insert$5) near10 (compatible incompatible noncompatible) near10 (data content) and (template) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 13:04 |
| S29 | 0 | ((data content) near3 (server)) near10 (diplyable nonHTML) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 14:24 |
| S30 | 68868 | (data content) near3 (server) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 14:20 |
| S31 | 42 | ((data content) near3 (server)) and ((multilingual multilanguage) near10 (data content)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 14:20 |
| S32 | 4 | (((data content) near3 (server)) and ((multilingual multilanguage) near10 (data content))) and ((select$5) near10 (template))and HTML and tag | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/20 14:21 |
| S33 | 99 | (Pars$4) near10 ((identify$ select$5) near10(template)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/21 08:33 |

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| S34 | 3723 | name adj value | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/21 08:38 |
| S35 | 2 | "5987480".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/04/21 10:27 |
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| S38 | 1 | (hutsch) and (2001/0034771) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/09/09 16:21 |
| S39 | 0 | "2001/0034771".PN. | USPAT | OR | OFF | 2004/09/09 15:21 |
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| S43 | 67 | (templat$5) near5 (bandwidth) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/09/09 15:56 |
| S44 | 26 | templat$5) near3(bandwidth | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/09/09 15:59 |
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| S46 | 99 | (templat$5) near10 (bandwidth) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/09/09 16:01 |
| S47 | 0 | (hutsch) and ("09759740") | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/09/09 16:21 |
| S48 | 1 | (hutsch) and (09/759740) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/09/09 16:21 |
| S49 | 0 | (identify$5 select$5 determin$5) near10 (display) near10 (templat$5) near10 (bandwidth) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/09/09 16:25 |

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| S51 | 120 | ((identify$5 select$5 determin$5) near10 (display) near10 (templat$5)) and bandwidth | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/09/09 16:26 |
| S52 | 124 | 709/203,201,202,205,217,219.ccls. and (Viewable displayble nonviewable nondisplayble) near5 (content information data) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/09/09 16:52 |
| S53 | 33 | (709/203,201,202,205,217,219.ccls. and (Viewable displayble nonviewable nondisplayble) near5 (content information data)) and (templat$5) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/09/09 16:53 |
| S54 | 0 | (709/203,201,202,205,217,219.ccls. and (Viewable displayble nonviewable nondisplayble) near5 (content information data)) and (templat$5) near5 (bandwidth) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/09/09 16:53 |
| S55 | 12 | (709/203,201,202,205,217,219.ccls. and (Viewable displayble nonviewable nondisplayble) near5 (content information data)) and (templat$5) and (bandwidth) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2004/09/09 16:53 |
| S56 | 152 | (convert$5 transcod$5 translat$5 transform$5) near6 (nativ$54 local$5) near5 (compatible) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/24 10:40 |
| S57 | 7 | 709/201,202,203,206,219.ccls. and (convert$5 transcod$5 translat$5 transform$5) near6 (nativ$54 local$5) near5 (compatible) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/01/24 10:41 |
| S58 | 2 | "6529824".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/05/10 13:38 |
| S59 | 0 | (transcod$5) same (language) same template same (common generic) same (template) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/26 08:05 |
| S60 | 0 | (transcod$5) same (language) same template same (common generic) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/26 08:06 |
| S61 | 0 | (transcod$5) same template same (common generic) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/26 08:06 |
| S62 | 510 | (language) same template same (common generic) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/26 08:06 |

| S63 | 141 | (language) same template same (common generic) same (code constant) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/26 08:19 |
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| S64 | 2 | "6623529".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/26 08:19 |
| S65 | 0 | (select$5 identify$5 providing adapt$5) near5 (common generic general) near10 (template) near10 (bandwidth) same (language) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/29 10:08 |

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Computer Software and Applications Conference, 1997. COMPSAC '97. Proce
Twenty-First Annual International
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Neophytou, N.; Evripidou, P.;
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on
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Herng-Yow Chen; Gin-Yi Chen; Jen-Shin Hong;
Multimedia Computing and Systems, 1999. IEEE International Conference on
Volume 2, 7-11 June 1999 Page(s):887 - 891 vol.2
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Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: 📄 pdf(4.21 MB)     Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

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Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid
June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Full text available: 📄 pdf(233.31 KB)     Additional Information: full citation, abstract, references, citings, index terms, review

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

**Keywords**: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, system application

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Tzvetan T. Drashansky, Sanjiva Weerawarana, Anupam Joshi, Ranjeewa A. Weerasinghe, Elias N. Houstis
December 1996 **Mobile Networks and Applications**, Volume 1 Issue 4

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Recent and anticipated technological advances in wireless computing will permit users to compute ubiquitously, "anywhere" and "any time". However, mobile platforms are unlikely to have the computational resources to solve even moderately complex problems that users routinely solve on static workstations today. In the SciencePad project our aim is to develop "Ubiquitous" Problem Solving Environments (UPSEs) to support mobile aware applications. The objecti ...

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Richard J. Fateman
July 1997  **Proceedings of the 1997 international symposium on Symbolic and algebraic computation**

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David G. Brown, Jennifer J. Burg, Jay L. Dominick
January 1998 **Communications of the ACM**, Volume 41 Issue 1

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**6**  Pen computing: a technology overview and a vision
André Meyer
July 1995  **ACM SIGCHI Bulletin**, Volume 27 Issue 3

Full text available: pdf(5.14 MB)      Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

**7**  Higher-order distributed objects
Henry Cejtin, Suresh Jagannathan, Richard Kelsey
September 1995 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 17 Issue 5

Full text available: pdf(2.33 MB)      Additional Information: full citation, abstract, references, citings, index terms, review

We describe a distributed implementation of Scheme that permits efficient transmission of higher-order objects such as closures and continuations. The integration of distributed communication facilities within a higher-order programming language engenders a number of new abstractions and paradigms for distributed computing. Among these are user-specified load-balancing and migration policies for threads, incrementally linked distributed computations, and parameterized client-server applicat ...

**Keywords**: concurrency, continuations, higher-order languages, message-passing

**8**  L2imbo: a distributed systems platform for mobile computing
Nigel Davies, Adrian Friday, Stephen P. Wade, Gordon S. Blair
August 1998 **Mobile Networks and Applications**, Volume 3 Issue 2

Full text available: pdf(403.96 KB)      Additional Information: full citation, abstract, references, citings, index terms, review

Mobile computing environments increasingly consist of a range of supporting technologies offering a diverse set of capabilities to applications and end-systems. Such environments are characterised by sudden and dramatic changes in the quality-of-service (QoS) available to applications and users. Recent work has shown that distributed systems platforms can assist applications to take advantage of these changes in QoS and, more specifically, facilitate applications to adapt to their environme ...

**9** Implementing shared manufacturing services on the World-Wide Web
J. W. Erkes, K. B. Kenny, J. W. Lewis, B. D. Sarachan, M. W. Sobolewski, R. N. Sum
February 1996 **Communications of the ACM**, Volume 39 Issue 2

Full text available: pdf(404.10 KB)     Additional Information: full citation, references, citings, index terms

**10** E-commerce and computer science education
Yuzhen Ge, Jiangeng Sun
March 2000 **ACM SIGCSE Bulletin , Proceedings of the thirty-first SIGCSE technical symposium on Computer science education**, Volume 32 Issue 1

Full text available: pdf(492.33 KB)     Additional Information: full citation, abstract, references, citings, index terms

Electronic commerce is gradually changing the way the commerce is conducted. Computer science graduates will need to be prepared for the challenge posed by the increasing demand for professionals who can develop and maintain electronic commerce systems. By examining the standard computer science curriculum, some suggestions are proposed.

**11** Summary of the sigmetrics symposium on parallel and distributed processing
Jeffrey K. Hillingsworth, Barton P. Miller
March 1999 **ACM SIGMETRICS Performance Evaluation Review**, Volume 26 Issue 4

Full text available: pdf(1.17 MB)     Additional Information: full citation, index terms

**12** Workshop on compositional software architectures: workshop report
May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3

Full text available: pdf(2.91 MB)     Additional Information: full citation, index terms

**13** Commands as media: design and implementation of a command stream
Jonathan L. Herlocker, Joseph A. Konstan
January 1995 **Proceedings of the third ACM international conference on Multimedia**

Full text available: htm(47.29 KB)     Additional Information: full citation, references, citings, index terms

**Keywords:** TclStream, command stream, commands, multimedia presentations, reversibilty

**14** Controlling transmission order of inline objects for effective Web page publishing
Tadashi Nakano, Kaname Harumoto, Shinji Shimojo, Shojiro Nishio
March 2000 **Proceedings of the 2000 ACM symposium on Applied computing - Volume 2**

Full text available: pdf(571.95 KB)     Additional Information: full citation, references, citings, index terms

**Keywords**: WWW, inline object, transmission order

**15** The transport layer: tutorial and survey

Sami Iren, Paul D. Amer, Phillip T. Conrad

December 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 4

Full text available: pdf(261.78 KB)     Additional Information: full citation, abstract, references, citings, index terms

Transport layer protocols provide for end-to-end communication between two or more hosts. This paper presents a tutorial on transport layer concepts and terminology, and a survey of transport layer services and protocols. The transport layer protocol TCP is used as a reference point, and compared and contrasted with nineteen other protocols designed over the past two decades. The service and protocol features of twelve of the most important protocols are summarized in both text and tables.< ...

**Keywords**: TCP/IP networks, congestion control, flow control, transport protocol, transport service

**16** Issues in the design of a flexible distributed architecture for supporting persistence and interoperability in collaborative virtual environments

Jason Leigh, Andrew E. Johnson, Thomas A. DeFanti

November 1997 **Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available: pdf(278.72 KB)     Additional Information: full citation, abstract, references, citings

CAVERN, the CAVE Research Network, is an alliance of industrial and research institutions equipped with CAVE-based virtual reality hardware and high-performance computing resources, interconnected by high-speed networks, to support collaboration in design, education, engineering, and scientific visualization.CAVERNsoft is the collaborative software backbone for CAVERN. CAVERNsoft uses distributed data stores to manage the wide range of data volumes (from a few bytes to several terabytes) that ar ...

**Keywords**: collaborative, persistence, reality, scalable, virtual

**17** A tour through cedar

Warren Teitelman

March 1984 **Proceedings of the 7th international conference on Software engineering**

Full text available: pdf(2.08 MB)     Additional Information: full citation, references, citings, index terms

**18** CMIFed: a transportable hypermedia authoring system

Lynda Hardman, Guido van Rossum, Jack Jansen, Sjoerd Mullender

October 1994 **Proceedings of the second ACM international conference on Multimedia**

Full text available: pdf(1.93 MB)     Additional Information: full citation, references, citings, index terms

**19** An annotated bibliography of computer supported cooperative work

Saul Greenberg

July 1991 **ACM SIGCHI Bulletin**, Volume 23 Issue 3

Full text available: pdf(4.27 MB)     Additional Information: full citation, abstract, references, citings, index terms

Computer-supported cooperative work (CSCW) is a new multi-disciplinary field with roots in many disciplines. Due to the area's youth and diversity, few specialized books or journals are available, and articles are scattered amongst diverse journals, proceedings and technical reports. Building a CSCW reference library is particularly demanding, for it is difficult for the new researcher to discover relevant documents. To aid this task, this article compiles, lists and annotates some of the curren ...

**20** <u>Using design patterns to develop reusable object-oriented communication software</u>
Douglas C. Schmidt
October 1995 **Communications of the ACM**, Volume 38 Issue 10

Full text available: pdf(261.30 KB)     Additional Information: full citation, abstract, references, citings, index terms

Despite dramatic increases in network and host performance, it remains difficult to design, implement, and reuse communication software for complex distributed systems. Examples of these systems include global personal communication systems, network management platforms, enterprise medical imaging systems, and real-time market data monitoring and analysis systems. In addition, it is often hard to directly reuse existing algorithms, detailed designs, interfaces, or implementations in these s ...

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